

Name:

Date:

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PART A In the space on the left, write the letter of the term or phrase which **best** completes the statement or answers the question (1 mark each).

- _____ 1. Which of the following are natural phenomena?
a. Deforestation
b. Forest fires
c. Volcanic eruptions
d. Contamination
- _____ 2. Soil degradation can affect the following:
a. Nutrients in the soil
b. Air quality
c. The concentration of greenhouse gases.
d. The amount of heavy metals in the ground
- _____ 3. Acid rain involves ...
a. Sulfur dioxide
b. Nitrogen monoxide
c. Neither A nor B
d. Both A and B
- _____ 4. If the pH of a solution is 7, the solution is ...
a. Neutral
b. Acidic
c. Concentrated
d. Basic
- _____ 5. The pine beetle makes it difficult for trees to produce ...
a. Fungal spores
b. Leaves
c. Resin
d. Photosynthesis
- _____ 6. Hurricanes are caused by ...
a. Volcanic eruptions
b. Low pressure systems
c. Earthquakes
d. Landslides

- ___ 7. What is the practice where forests are logged or cleared for human use and never replanted?
- a. habitat loss.
 - b. ecological succession.
 - c. deforestation.
 - d. forest reclamation.
- ___ 8. Fish and timber harvesting, mining ore and minerals, and extracting oil and gas are examples of ...
- a. resource exploitation.
 - b. sustainability.
 - c. ecological succession.
 - d. polyculture.
- ___ 9. The ways we obtain and use the resources found in the environment is called ...
- a. land use.
 - b. resource use.
 - c. sustainability.
 - d. habitat alteration.
- ___ 10. Which of the following is not a pesticide?
- a. Insecticides
 - b. Sporicide
 - c. Fungicides
 - d. Herbicides

PART B In the space provided mark each of the following as true or false. (1 mark each)

- ___ 1. DDT is now banned in Canada as it can accumulate in the fatty tissues of consumers.
- ___ 2. Tsunamis can deposit large volumes of salt water onto shore altering environments.
- ___ 3. Climates naturally change over time.
- ___ 4. Mature forest communities never change.
- ___ 5. Fire suppression decreases the amount of litter on the forest floor.
- ___ 6. Cigarette smoke is a not a significant source of mercury.
- ___ 7. Forests are carbon sinks.
- ___ 8. The biggest contributors to soil erosion on agricultural lands are farm vehicles and animals.
- ___ 9. Heavy metals are metals with high densities.
- ___ 10. Drought is a recurring event in many parts of the world.

PART C In the space provided, match each term or phrase with the best definition. (1 mark each)

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|-----------------------------|---|
| _____ 1. Mercury | A. Destruction that usually happens from human activities. |
| _____ 2. DDT | B. Using natural resources in a way that maintains ecosystem health. |
| _____ 3. Radioactive wastes | C. Caused by low pressure systems over tropical oceans. |
| _____ 4. Deforestation | D. Caused by high winds and low pressures. |
| _____ 5. Contamination | E. A pesticide used to kill malaria-carrying mosquitoes. |
| _____ 6. Volcanic eruptions | F. The clearing or logging of forests without replanting. |
| _____ 7. Tornadoes | G. May cover plants and animals in ash and soot. |
| _____ 8. Sustainability | H. Land pollution that may come from spent fuel rods in nuclear reactors. |
| _____ 9. Habitat loss | I. A heavy metal used in thermometers. |
| _____ 10. Hurricanes | J. Introducing harmful substances into the environment. |

PART D Each of the following questions requires a concise essay or a short answer.

1. Give an example of a sustainable land use practice. (3 marks)
2. What are contaminants and why are they such a large concern for our environment? (2 marks)

3. Name three natural weather events. Identify the causes of each event and their possible impacts on ecosystems (9 marks)
4. Describe the pH scale and how it identifies whether or not a solution is acidic, basic or neutral. (3 marks)
5. What are volatile organic compounds? What is their source and how do they affect the environment? (3 marks)